

Table 6
King County International Airport - Stormwater Vault Sediment Results - Comparison to Sediment Management Standards

SQS CSL		1541 KCIA L39363-1	1640 KCIA L39363-2	1650 KCIA L39363-3	1657 KCIA L39363-4	1670 ^(a) KCIA L39363-5	1680 KCIA L39363-6	1756 KCIA L39363-7	1757 ^(b) KCIA L39363-8	1757 ^(c) KCIA L39363-9
Date Sampled		6/8/2006	6/7/2006	6/7/2006	6/7/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006	6/6/2006
TOC (percent)		8.65	7.2	6.98	3.98	6.27	6.59	5.27	8.27	0.45
Metals (mg/kg DW)										
As	57 93	9.4	23	34.4	14	9.3	29.3	12	16	4 U
Cu	390 390	1,550	233	567	204	227	284	286	301	31
Pb	450 530	190	463	744	263	396	420	237	385	10
Hg	0.41 0.59	0.13	0.21	0.24	0.20	0.30	0.24	0.54	0.24	0.04 U
Zn	410 960	1,880	1,250	1,810	1,620	574	1,240	1,580	813	40
LPAH (mg/kg OC)										
Acenaphthene	16 57	9 U	15 U	23 U	22 U	16	23 U	30 U	16 U	11 U
Acenaphthylene	66 66	21 U	32 U	50 U	48 U	21 U	50 U	66 U	34 U	22 U
Anthracene	220 1,200	5 U	17	14	21	67	29	83	77	14
Fluorene	23 79	17 U	28 U	43 U	40 U	27	44 U	57 U	29 U	20 U
2-Methylnaphthalene	38 64	18 U	31 U	47 U	43 U	19 U	47 U	63 U	31 U	22 U
Naphthalene	99 170	18 U	31 U	47 U	43 U	19 U	47 U	63 U	31 U	22 U
Phenanthrene	100 480	38	190	100	165	333	290	639	571	156
Total LPAH	370 780	38	207	114	186	443	319	723	648	170
HPAH (mg/kg OC)										
Benzo(a)anthracene	110 270	26	99	65	94	313	176	584	429	110
Benzo(a)pyrene	99 210	32	160	102	157	416	288	808	605	164
Benzo(b)fluoranthene ^(d)	230 450	52	285	143	261	649	463	1,476	1,006	290
Benzo(k)fluoranthene	- -	38	193	152	249	426	461	1,104	712	191
Benzo(g,h,i)perylene	31 78	36	165	104	166	399	308	806	542	163
Chrysene	110 460	54	263	155	251	514	475	1,277	848	224
Dibenzo(a,h)anthracene	12 33	9 U	43	33	40	119	61	197	156	41
Fluoranthene	160 1,200	86	467	258	430	837	809	2,011	1,596	424
Indeno(1,2,3-cd)pyrene	34 88	30	143	94	146	372	276	763	514	152
Pyrene	1,000 1,400	78	361	202	322	710	584	1,454	1,209	322
Total HPAH	960 5,300	432	2,179	1,308	2,115	4,754	3,902	10,484	7,617	2,080
Phthalates (mg/kg OC)										
Bis(2-ethylhexyl)phthalate	47 78	614	1,017	453	739	622	976	1,080	2,805	14,169
Butylbenzylphthalate	4.9 64	8 U	28	45	37	42	46	67	49	25
Diethylphthalate	61 110	8 U	13 U	20 U	19 U	8 U	20 U	27 U	13 U	9 U
Dimethylphthalate	53 53	15 U	24 U	37 U	35 U	15 U	36 U	49 U	25 U	17 U
Di-n-butylphthalate	220 1,700	7 U	11 U	45	18	7 U	43	23 U	11 U	8 U
Di-n-octylphthalate	58 4,500	11 U	17 U	27 U	25 U	11 U	27 U	36 U	18 U	24
PCBs (mg/kg OC)										
Aroclor 1016	- -	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1221	- -	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1232	- -	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1242	- -	0.5 U	0.7 U	1.0 U	1.0 U	0.5 U	1.1 U	1.5 U	0.7 U	4.9 U
Aroclor 1248	- -	0.5 U	0.7 U	3.6	1.8	0.5 U	11.0	1.5 U	1.2	4.9 U
Aroclor 1254	- -	0.5 U	2.1	2.9	1.9	1.8	15.8	5.2	4.0	4.9 U
Aroclor 1260	- -	0.5 U	1.4	3.8	2.4	2.7	2.4	5.0	4.0	4.9 U
Total PCBs	12 65	ND	3.5	10.3	6.1	4.6	29.2	10.2	9.2	ND
TPH (mg/kg) MTCA A										
Diesel	2,000	11,000	16,000	ND	940	2,000	2,100	8,100	6,300	1,600
Motor Oil	2,000	81,000	8,800	10,000	3,500	8,500	8,200	25,000	13,000	ND

- Notes:**
- Detected values shown in bold.
- Except where noted, all samples collected from final (outflow) chamber of vault.
- (a) = Sample collected from first (inflow) chamber of a two-chamber vault. Insufficient sediment in second (outflow) chamber.
- (b) = Sample collected from the middle chamber of vault. Sediment sample appeared normal.
- (c) = Sample collected from the last (outflow) chamber of vault. Sediment sample appeared to be a greyish-colored slurry.
- (d) = Standard based on total benzofluoranthenes
- DW = Dry weight
- FD = Field duplicate
- ND = Not detected
- OC = Organic carbon
- U = Chemical not detected at reported concentration.
- ## = Exceeds Sediment Quality Standards (SQS).
- ## = Exceeds Cleanup Screening Levels (CSL) or MTCA Method A soil cleanup level for industrial use.